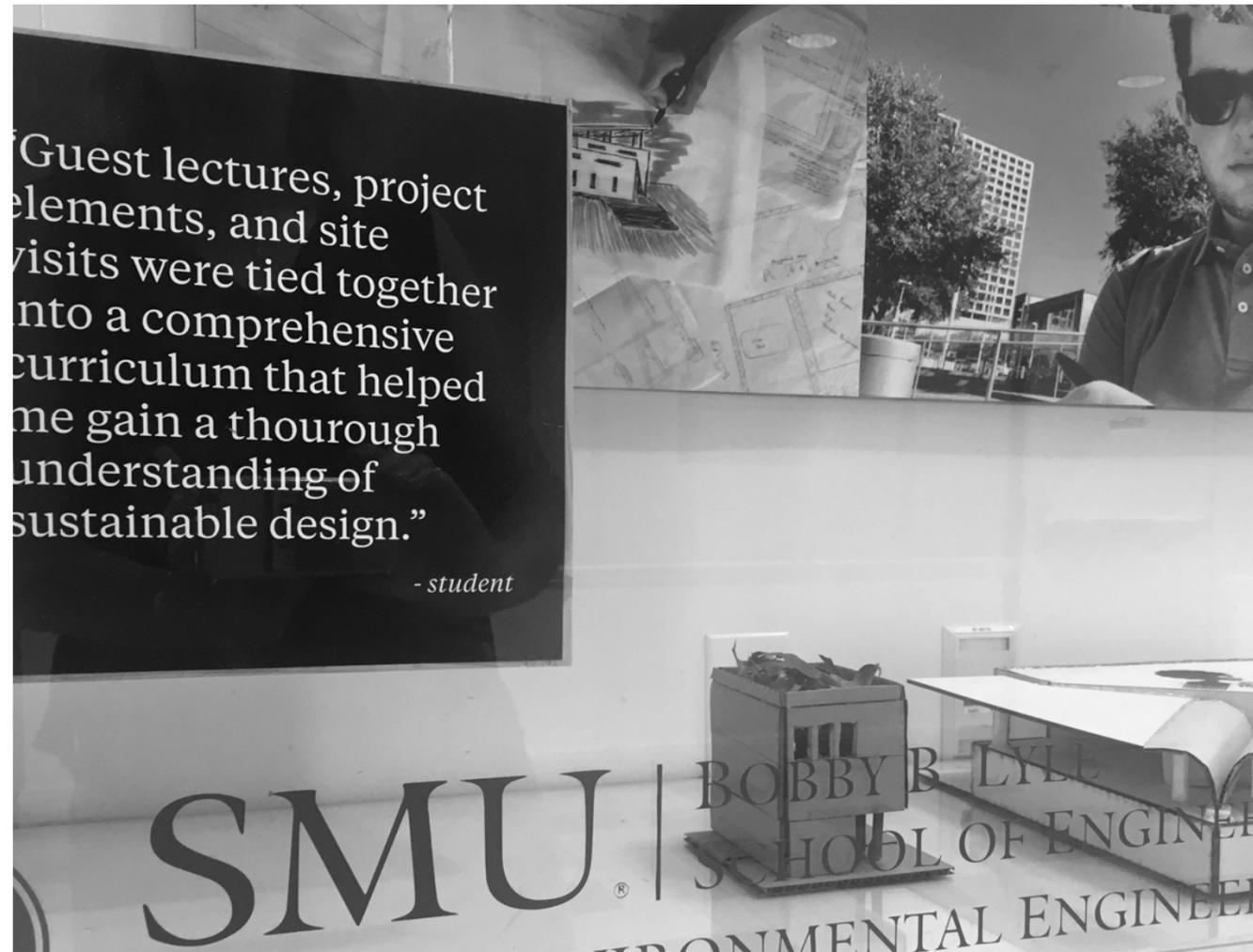
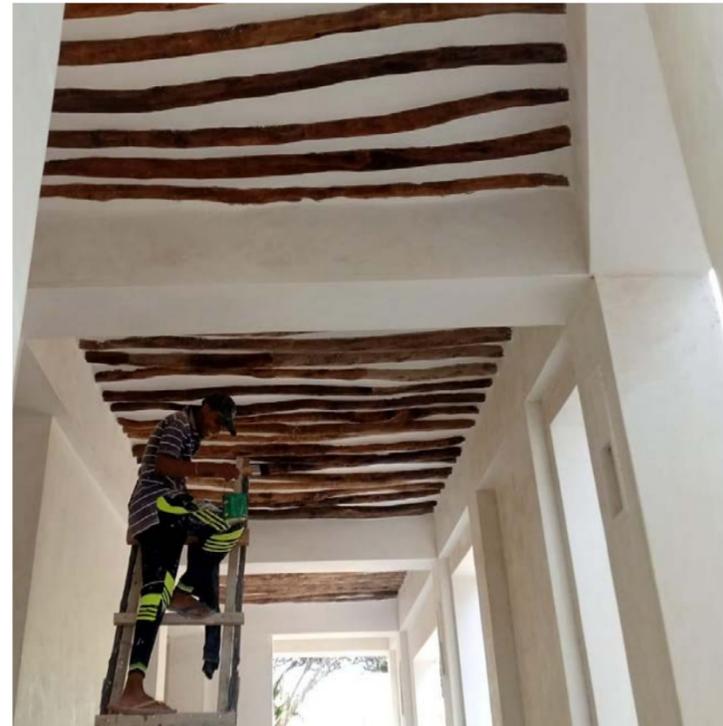


Jessie Marshall Zarazaga
RIBA LeedAP PhD

architect@jessiemarshall.com

SUSTAINABILITY
DESIGN. POLICY. DATA. IMAGINATION.





**ACACIA HOUSE
MANDA ISLAND, KENYA
2020-22**

fully independent on-site water collection and solar systems, coral-brick construction with kidaka details and makuti roof

Jessie Marshall Design



GROUND FLOOR PLAN



SITE PLAN

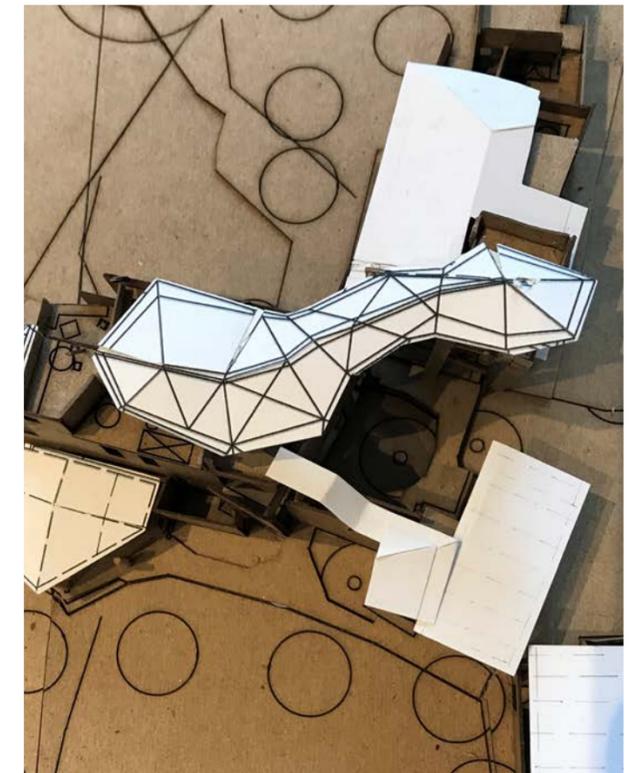
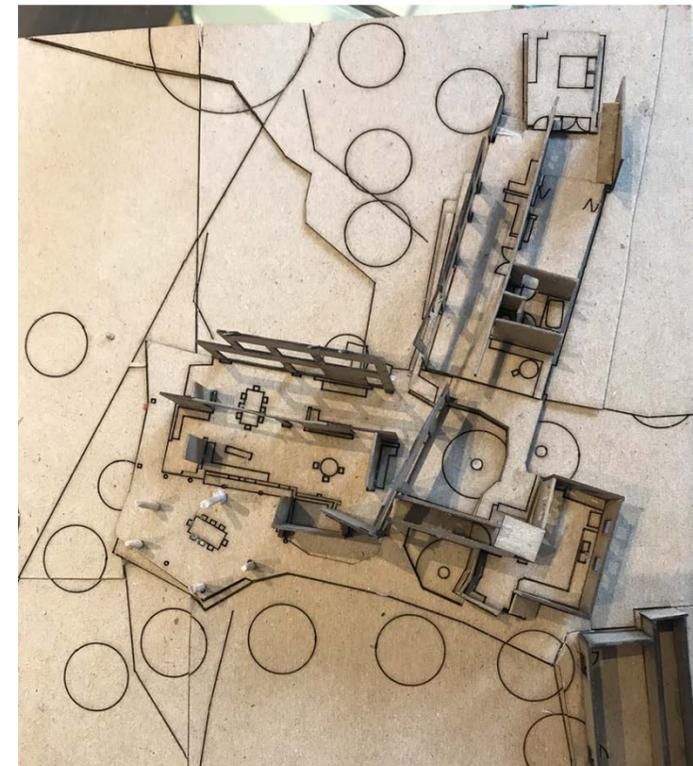


LOCATION PLAN

Sanctuary Toby & Mustapha Manda Island Lamu
Scale: 1:100 (at A1)
GROUND PLANS

date: Oct 2020

JESSIE MARSHALL design architect@jessiemarshall.com



**ACACIA HOUSE
MANDA ISLAND, KENYA
2020-22**

fully independent on-site water collection and solar systems, corral-brick construction with kidaka details and makuti roof

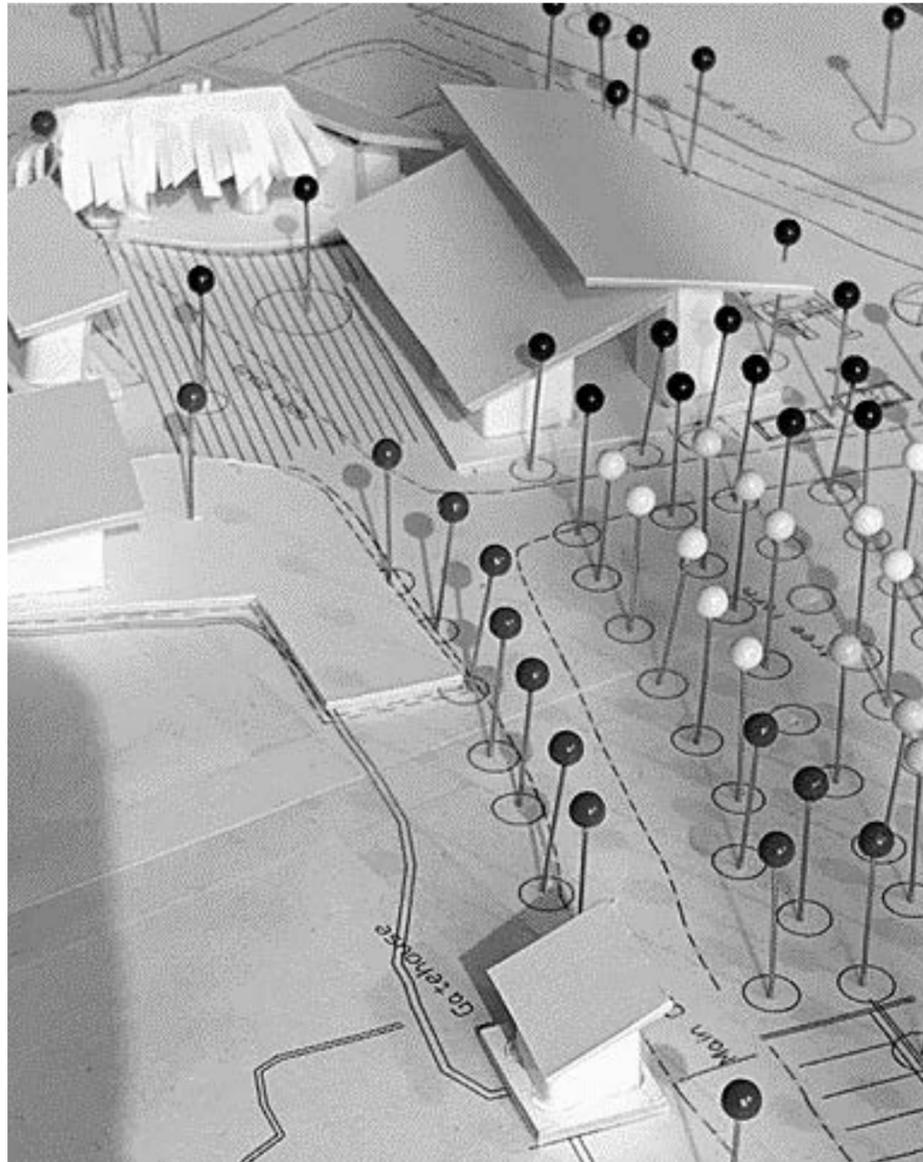
Jessie Marshall Design



creative use of local materials and craft traditions requires trust, flexibility and open minded collaboration .



teaching and research



**KASISA SITE DESIGN,
TANZANIA 2022**

site planning, measurement, RTK analysis and
design for Kijiji Rural Development Center,
summer research study with students,

teaching and research



Heuristic TOOL 1

UNBUILD
 the environment inspires the function or pattern of the new

mapping heuristic

- uncover hidden nature
- map the natural as a model for the new

examples

- water sources as model plan structure
- wind or topography as pattern
- invisible aspects: sound or shadow, impact new vision

engineering idea
 environment plays a role in function or product physically incorporated



Heuristic TOOL 13

PROVOCATION & MISUSE
 creative misuse of the toolkit

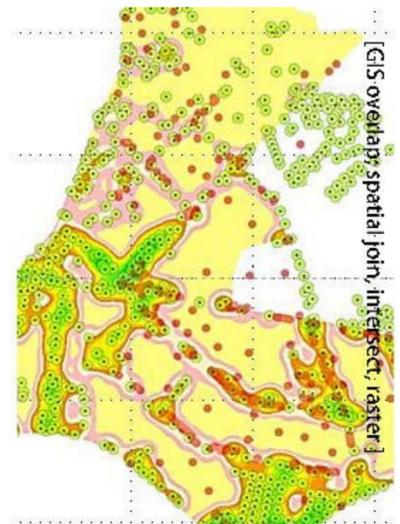
mapping heuristic

- modify plan with idea provoking operators
- search for aspects of difference, break symmetry, remove, unite, divide

examples

- intercept conventional pattern by slicing through, and inserting
- visualize crime zones as topography integrated with streetlight buffers

engineering idea
 modify concept using idea provoking operators: unification, multiplication, division, object removal



Heuristic TOOL 5

PERCEPTION
 map the invisible site

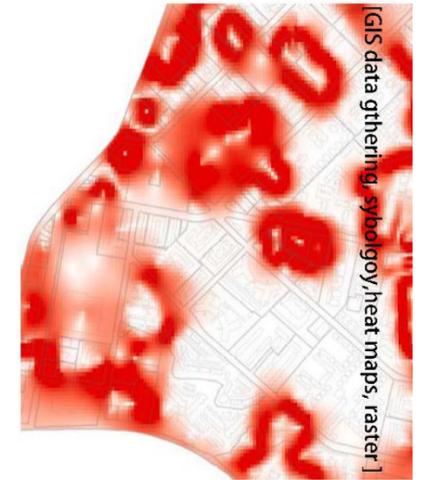
mapping heuristic

- map an aspect of the site which is perceived but not seen
- observe and annotate user perceptions through ways of acting and knowing

examples

- perceptions of incongruity between structure & difference of quality
- wind, sunshine, soil types, noise levels
- sensation of safety, warmth

engineering idea
 product develops from observation & careful annotation of user engagement planning description



Heuristic TOOL 2

ISOLATE
 extract aspects or issues of the site and see each separately

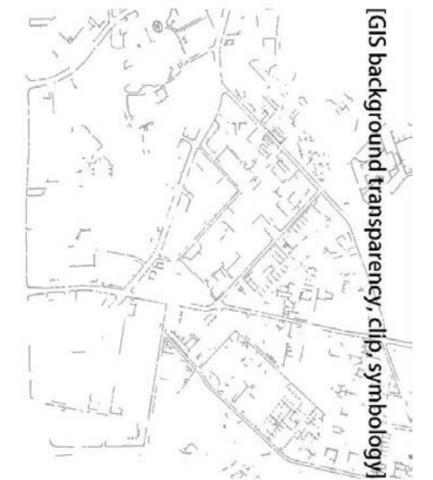
mapping heuristic

- see unexpected patterns
- uncover hidden voids
- juxtapose differences

examples

- walkable pavement gaps
- see topography alone
- only trees, no buildings
- movement without roads

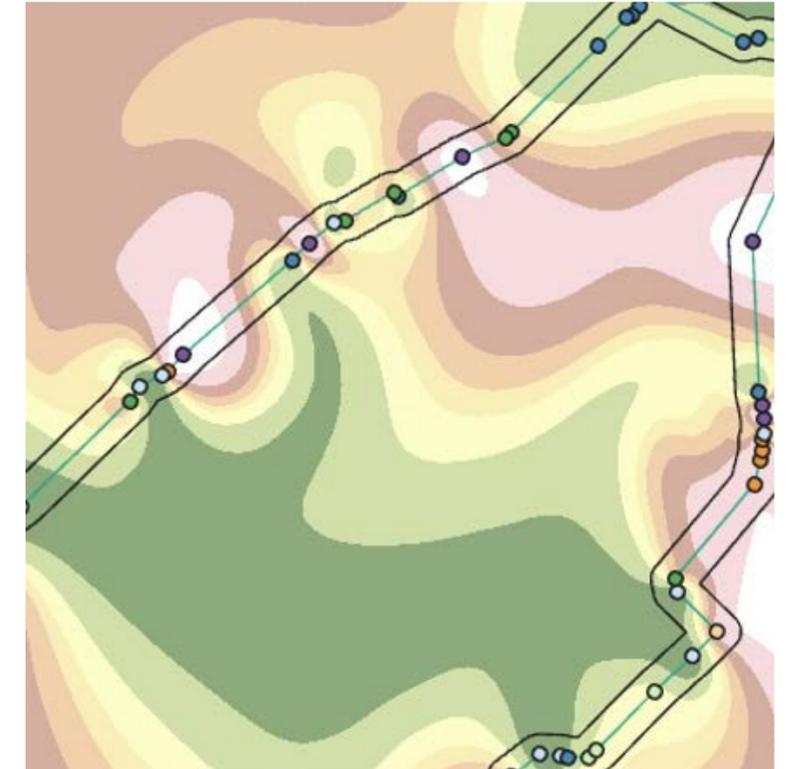
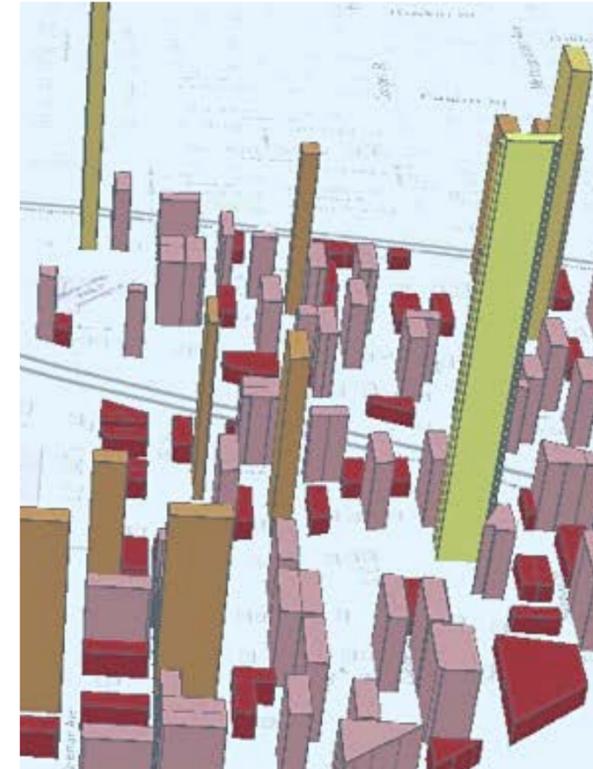
engineering idea
 break problem into pieces to address each attribute separately



GEO-DESIGN CARDS DALLAS 2018-22

Design Heuristic tools using GIS to explore strategies for creative exploration of infrastructure site planning for land-engineering,

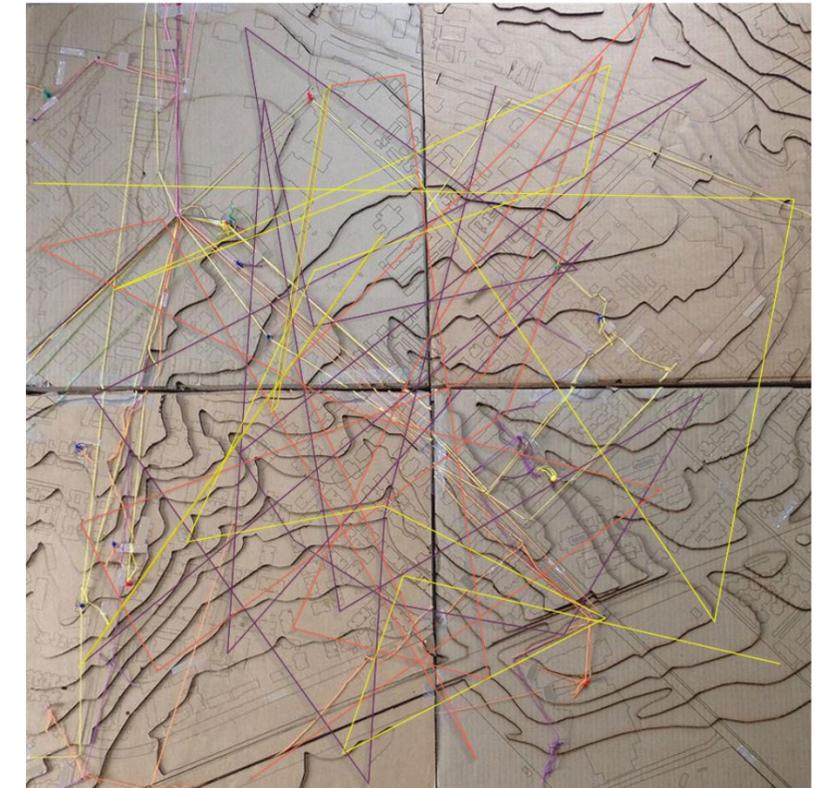
teaching and research



**SITES OF INTENSITY
DALLAS 2017-22**

Participatory neighborhood mapping & GIS to reveal interactions of perceptual and physical qualities, for fully sustainable communities,

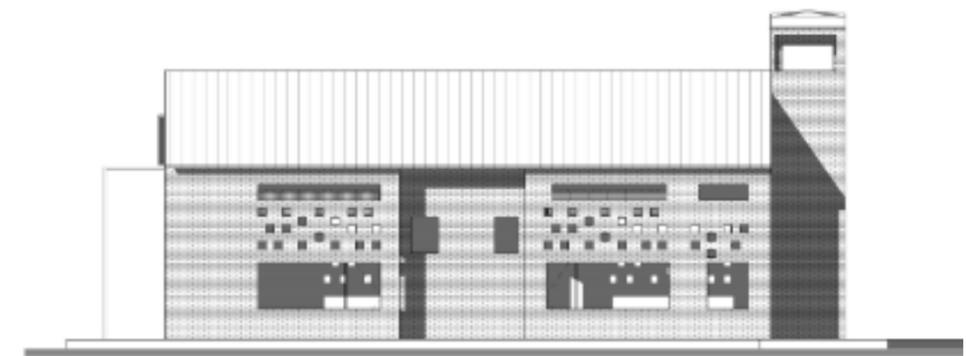
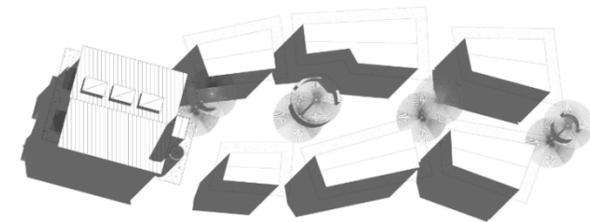
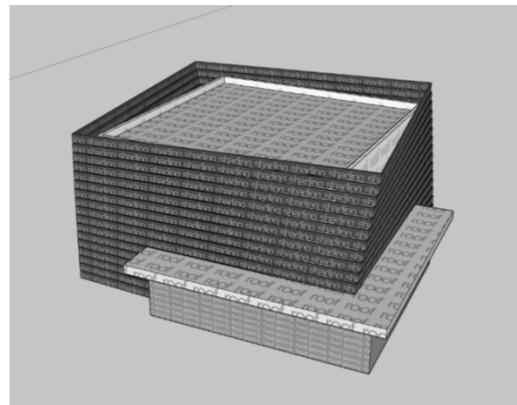
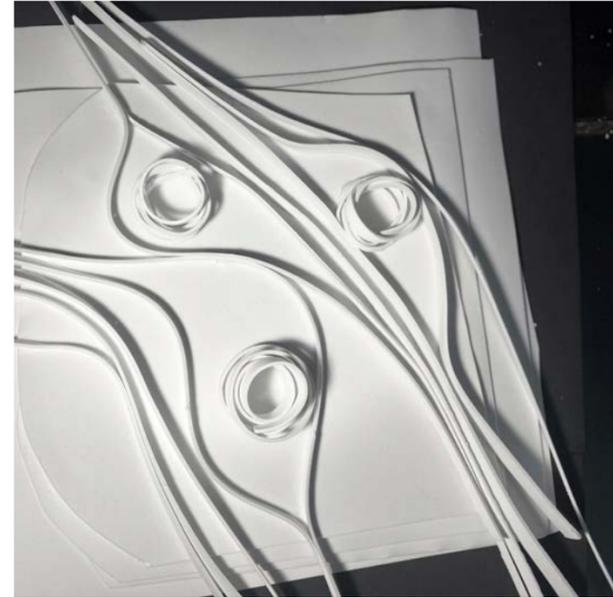
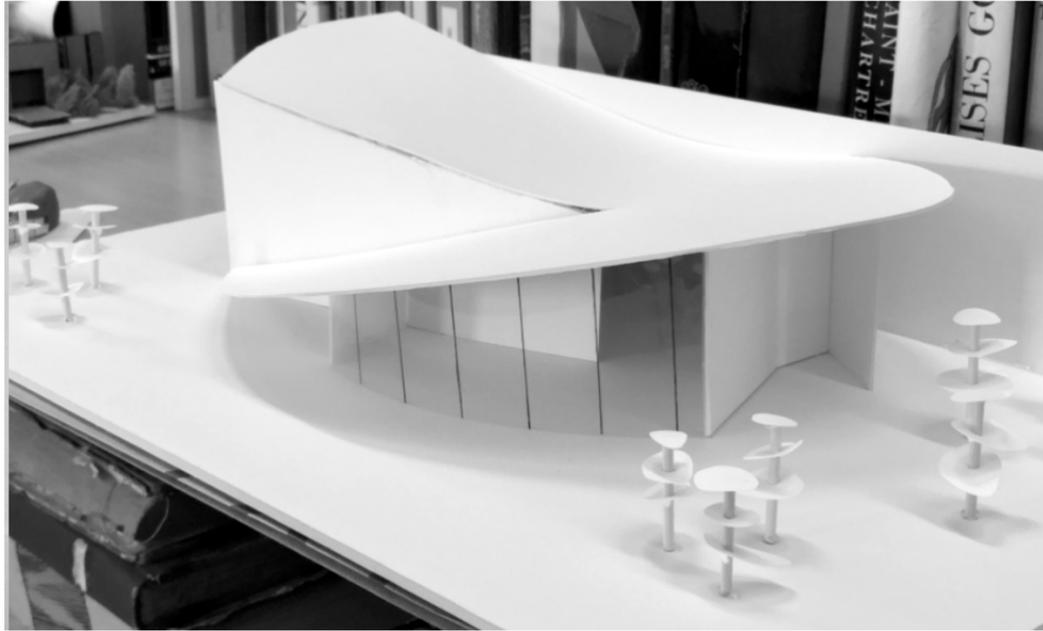
teaching and research



**PATHWAYS OF OVERLAP,
DALLAS 2013**

Participatory community mapping with SMU students and community, revealing and building upon interlocking networks of pathways in a refugee community,

teaching and research



student mapping and design projects
graduate studio: sustainable building design, SMU 2019, 2021

teaching and research



student mapping and design projects
graduate studio: sustainable building design, SMU 2019, 2021

teaching and research



**SUSTAINABLE URBAN
HACK,
DALLAS, 2022**

E.J. collaborative design -thinking incubator with
community members, SMU engineering
students and
Paul Quinn HBCU students,

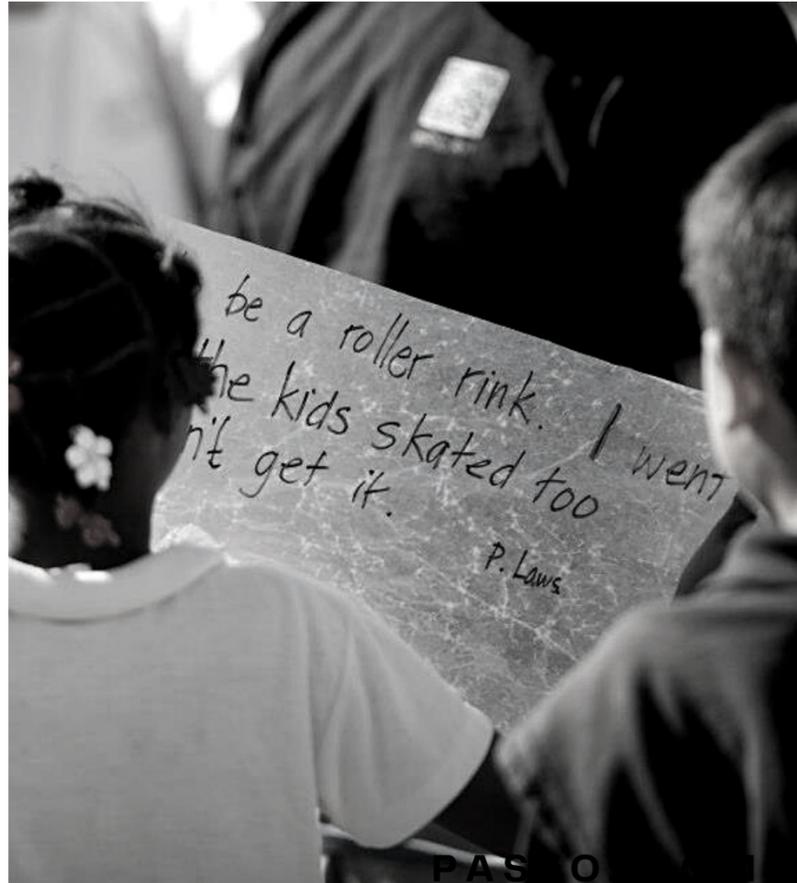
design practice

THEATRE DESIGN



**THE DREAMERS
SET DESIGN
2013**

a story of a migrant journey, Cara Mia theatre



PASO COUNTY
**MAPPING EVENT-SPACE
2012**

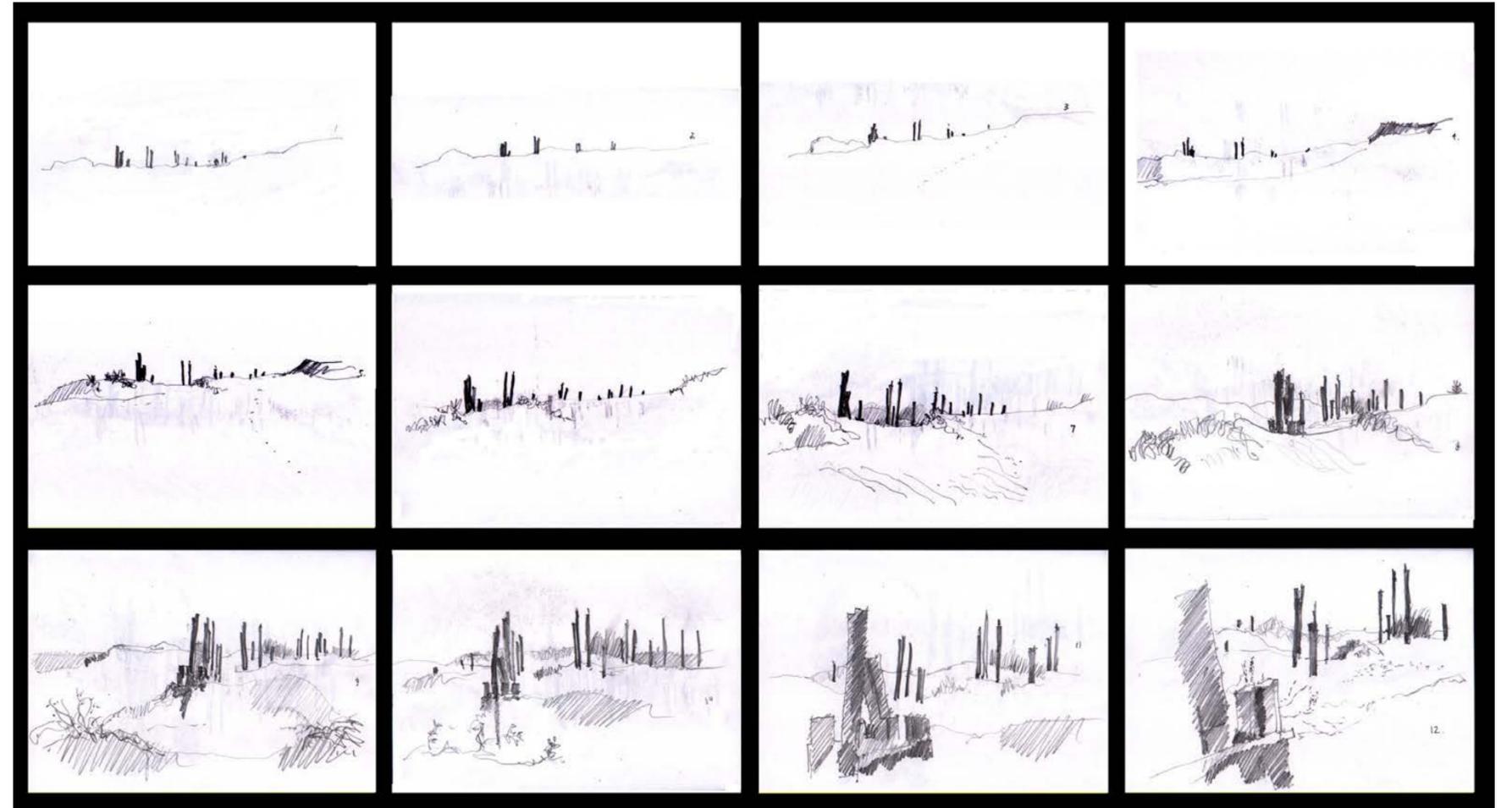
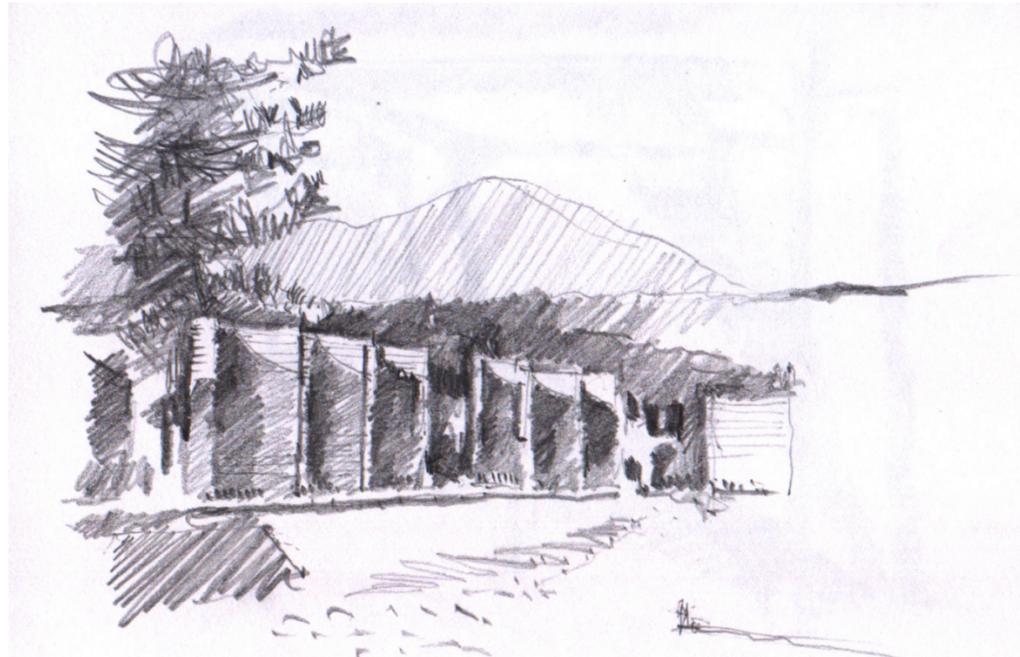
activation of community space through neighborhood memory-mapping, engagement with students, youth and elderly, and enactment of a site-event .. Creation of public-space through action



retracing the footsteps of neighborhood memories, flag-stories are collected then re-planted on the levee. Sustainable public-space through activation acts against gentrification



teaching and research



**LANDSCAPE SCALE STUDY
RITOQUE, CHILE
2005**

Fulbright fellowship at UCV focused on motion,
weathering & memory as landscape
markers of place and scale,



01. Rockwall House, Texas, 2002

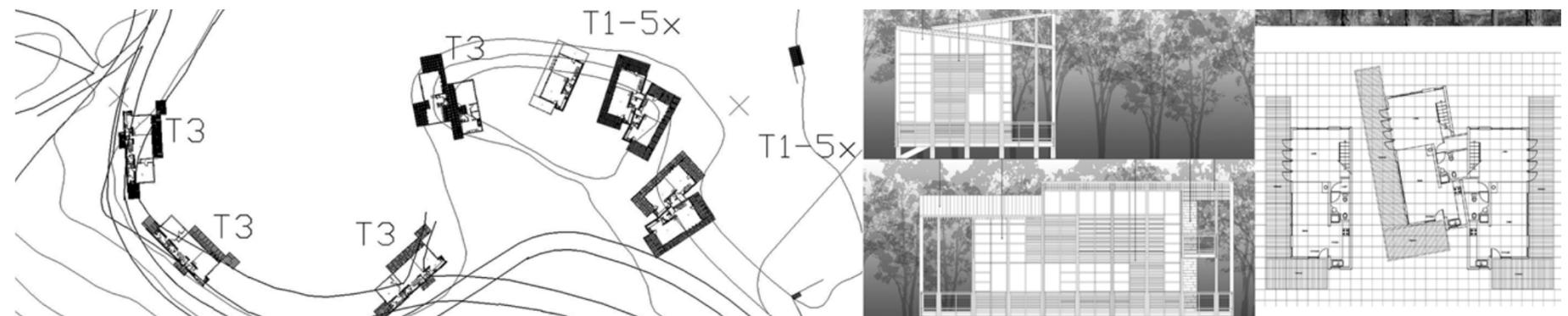


02. CityColor Printing, Texas 2002



03 Zagan Restaurant, 2003

design practice



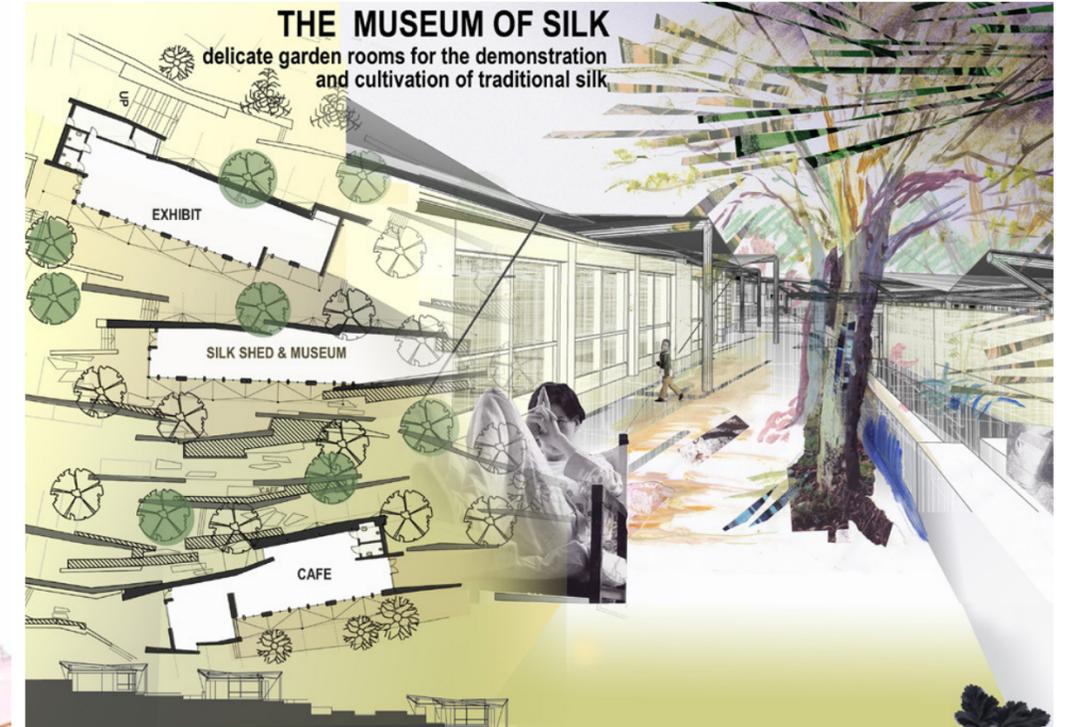
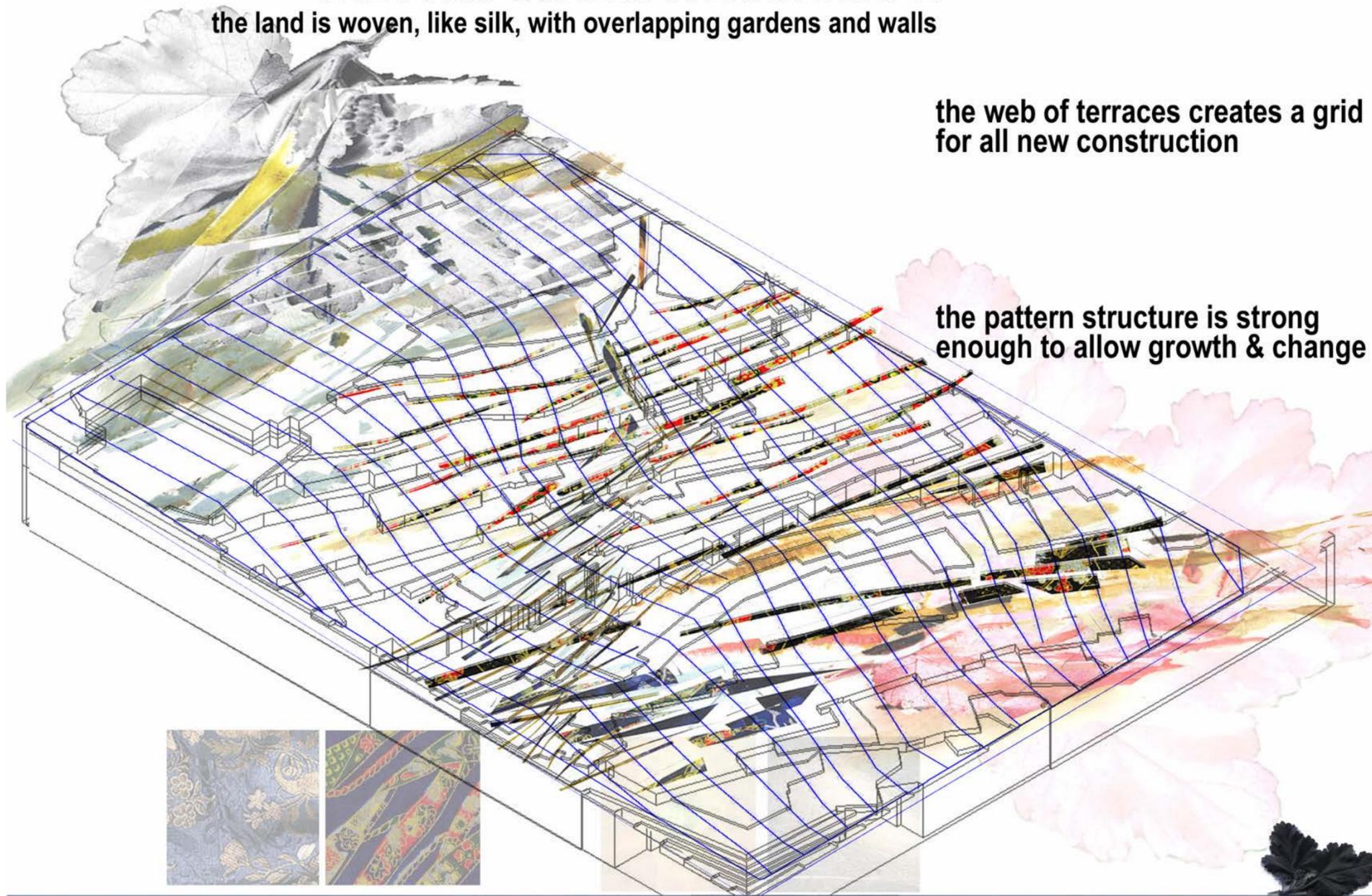
Troia Eco-resort Masterplan and Phase 1, Portugal 2000-2004.
Project Architect, Laguarda Low Architects

THE PROPOSAL IS A LANDSCAPE

the land is woven, like silk, with overlapping gardens and walls

the web of terraces creates a grid for all new construction

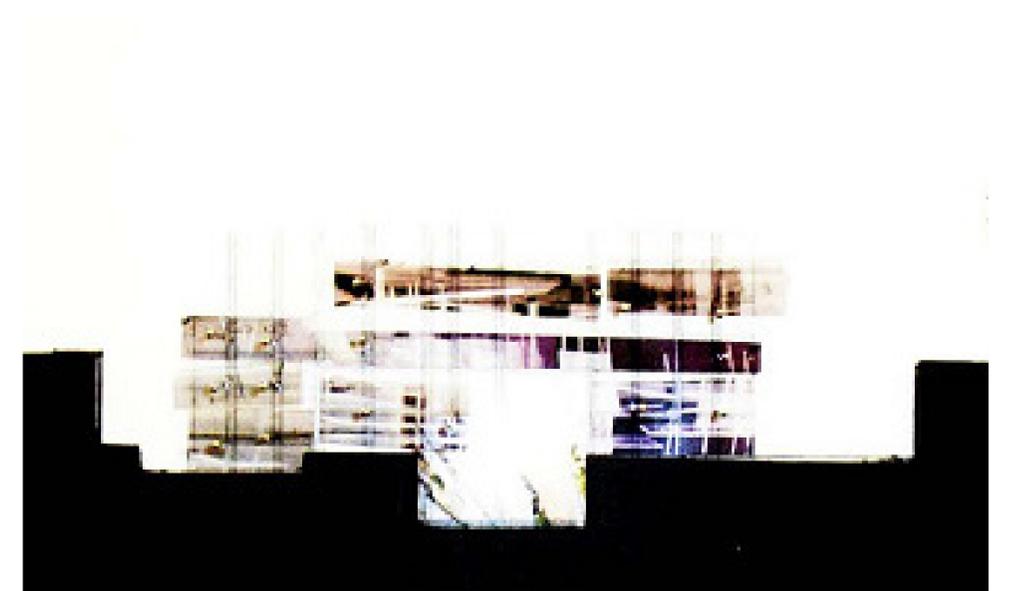
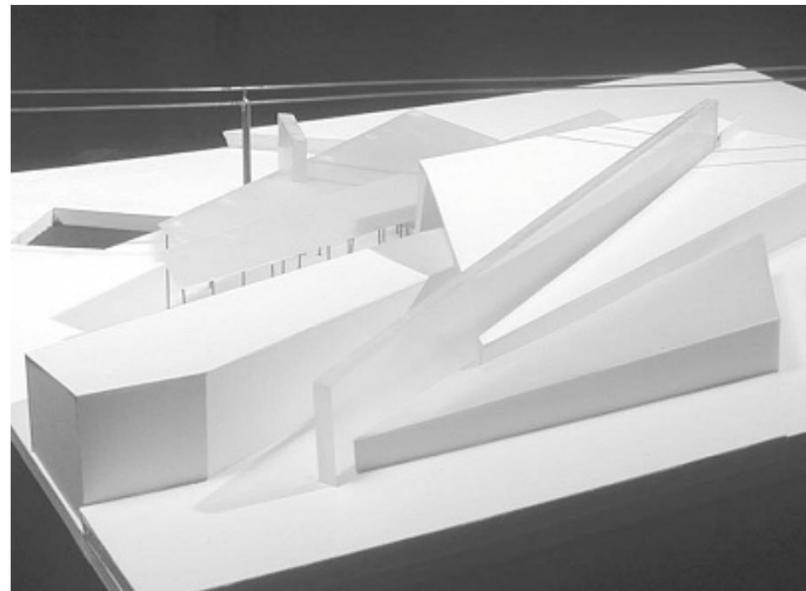
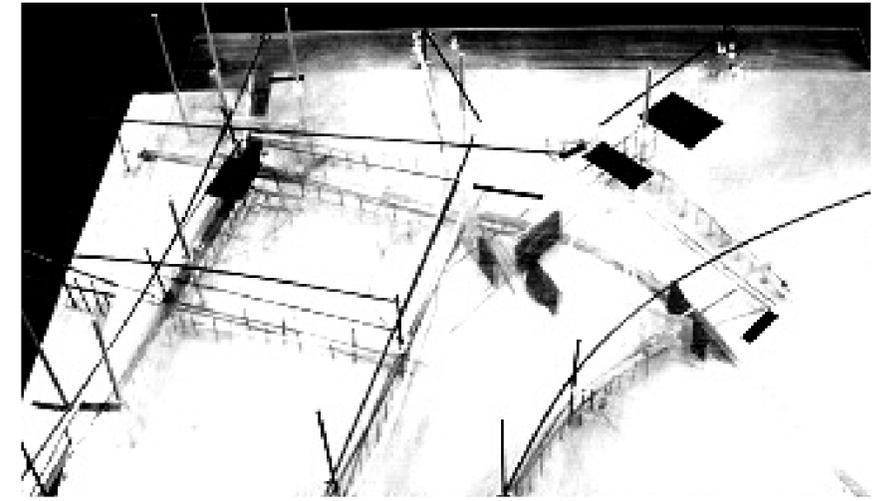
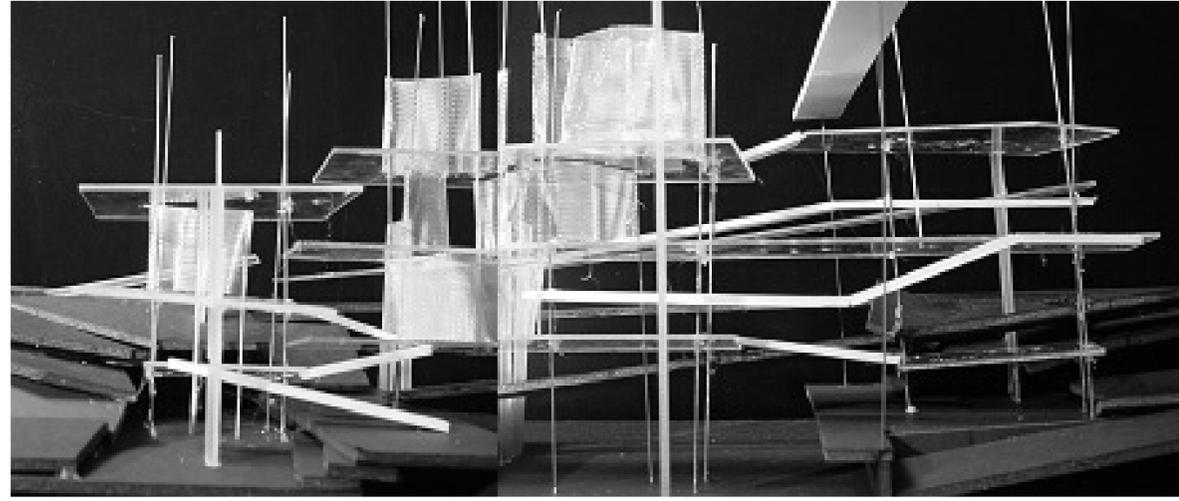
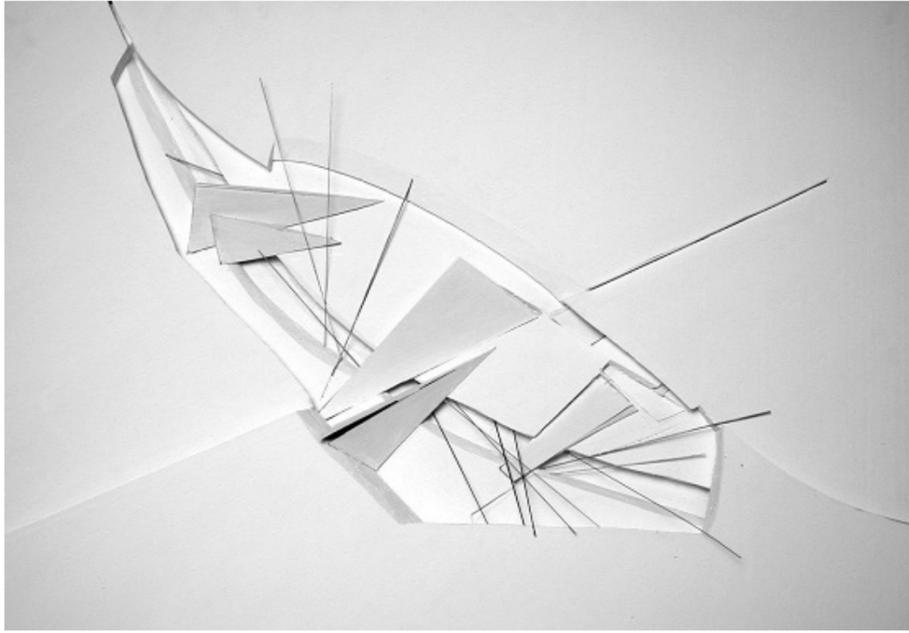
the pattern structure is strong enough to allow growth & change



**ANAKA FORUM: ART & NATURE
JAPAN
2003**

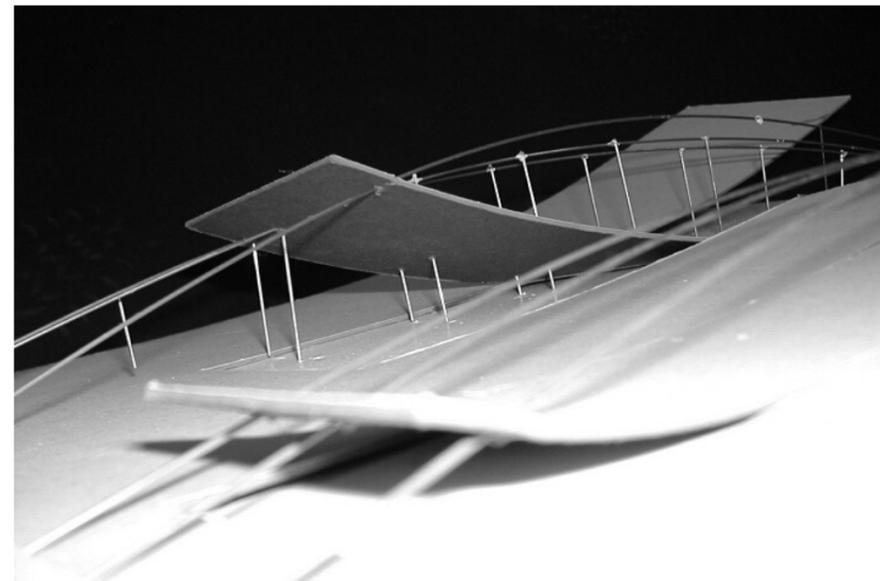
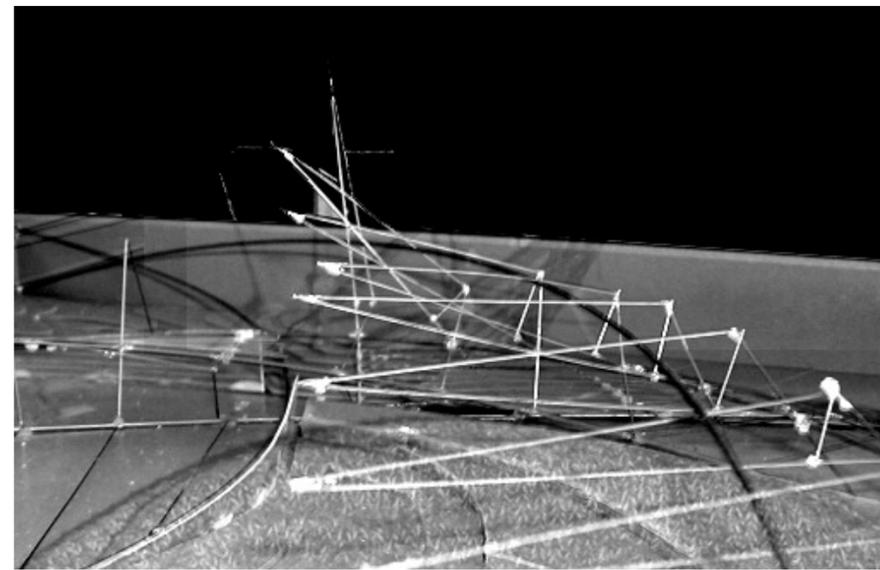
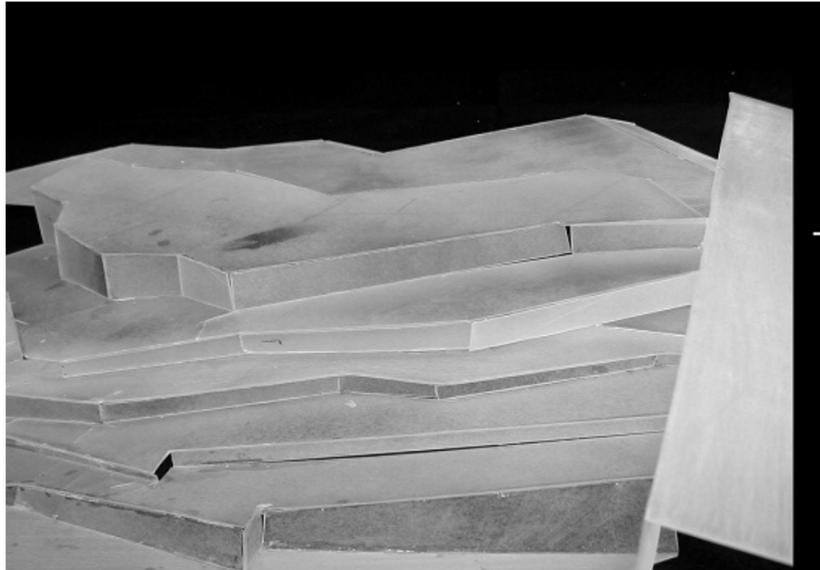
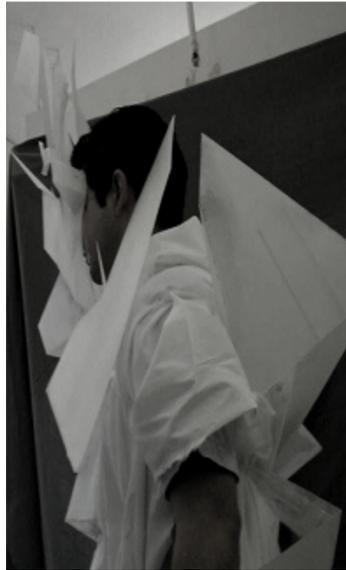
Jessie Marshall Design
third place in international competition
for a site for art and nature in Annaka Japan
sponsored and published Shinkenchiku Journal,

student mapping and projects



graduate studio: San Paulo; mapping and community center, UTA 2022

student mapping and projects



undergraduate studio; costume/ skin mapping and retail project UTA 2001



**AGA-KHAN TRUST FOR CULTURE,
ZANZIBAR STONETOWN
CONSERVATION PLAN,
1994**

Project team member,
inter-dependent urban development, ecotourism, education and
conservation strategies for urban and architectural plan,



01. Templewood Ave House,
MJP Architects, London 1999



02. Royal Academy Exhibition, 1997



03 Vespan Road, London 1998
Jessie Marshall Design

student mapping and projects

Triplos Studio 4

The studio has continued to work with the edge of the city, the periphery, but this year we have come into town to seek some locally liminal sites. This has involved exploring the nature of edge as opposed to centre, from both a spatial and thematic point of view. We have worked with housing and dwelling, recognising that they constitute much of the character and most of the fabric of the city.

House on the Edge introduced the issues of architectural boundary and the territory to which it has an allegiance. A linear site was chosen at the northern edge of a great field, at the limit of the village of Barton, itself at the western edge of Cambridge. It confronts the calibrated level of the Mullard Observa-

tory (the university's constantly changing array of radio telescopes) and the huge East Anglian sky. Accommodation for a worker and equipment is required for the maintenance of the field- a demonstration of sustainable agriculture.

Skills allowed a technical aspect of the previous project to be developed. Topics chosen were low-voltage lighting, lime in load-bearing construction, and rammed earth blocks. All were built. We initiated an intensive year of building by the whole department on its much-used terrace, by slaking quick-lime. We then carried out a block-planning exercise for 75 houses on the Ridgeons site, adjacent to the inner-city railway line. A field trip to Amsterdam taught much about

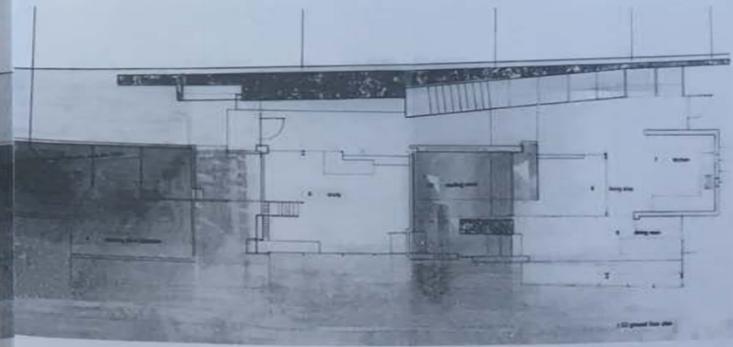
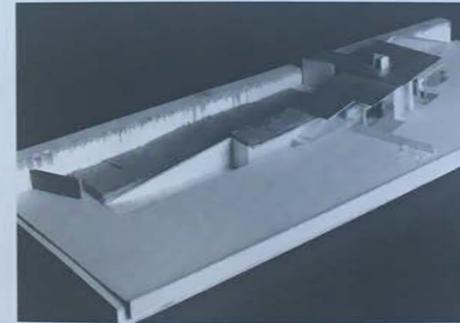
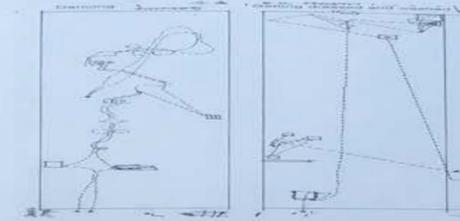
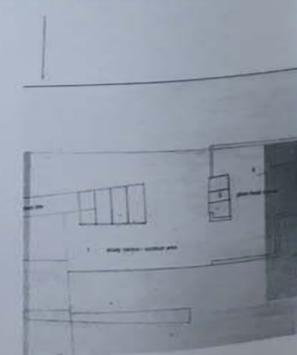
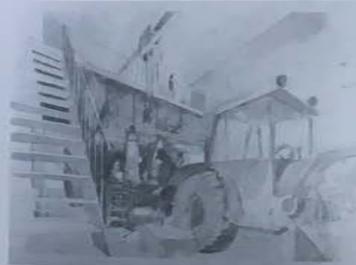
deep plans, light, how fields become urban areas, and ice: the weather being cold enough to transform the canals into skating commuter routes. We investigated a gap facing the water through a design game which explored delight and the unexpected. Individual Briefs included a tattoo parlour, teenage outreach centre and biking hotel.

Peterhouse brought together the year's concerns. Accommodation for students and academics, a computer room, a music room, and service needs are required by the university's oldest college. The site borders the Coe Fen, adjoins an ancient and richly scavenged boundary wall and terminates a formal alignment of two courts, with hall and chapel to the street.

Staff: John Sergeant, Jessie Marshall, Peter Rawlings

Students: Doreen Bernath, Lipika Chakrabarti, Robin Dutton, Nina Farrell, Nataly Gattegno, Tom Howe, Pete Manfield, Nick Mansour, Ben Piper, Pascale Scheurer, Emma Wales, Joanna Walker

Thanks to: Andy Brown, Jamal Badrashi, Amanda Bulman, Duncan Berntsen, Tom Corbellis, Homa Fajadhi, Gavin Hogben, David Lea, Andrew Murison, Thom Lighting (Malcolm Booth, Hamish Bryce), David Whitehead, Svetlana Yavorskaya, Rory Young.



Top: House on the Edge, Sketch, Nina Farrell
 Centre left: Skills, Light grid, Ben Piper
 Bottom left: Ridgeon's, living room, Robin Dutton

Centre middle: Barton, tractor shed, Ben Piper
 Centre right: Barton grasses, Nataly Gattegno
 Bottom right: Barton plan, Joanna Walker

Top left: Barton, choreography of dwelling, Emma Wales
 Centre: Barton house on the edge, Lipika Chakrabarti

Top right: Amsterdam, cold study, Pascale Scheurer
 Bottom right: Amsterdam Cryatorium, Ben Piper

undergraduate studio; Cambridge, UK 1998